

CHAPTER 5

5. LIST OF PREPARERS

Tyler Baker - Surface Water Review.

Biologist, TVA Resource Stewardship, Chattanooga, TN

Evelyn Benton - Maps and Data Management

Watershed Information Technician, TVA Resource Stewardship, Lenoir City, TN

Elizabeth Bouldin - Water Quality Review

Watershed Representative, TVA Resource Stewardship, Lenoir City, TN

Chellie J. Cook - Clerical Assistance

Business Support Representative, TVA Resource Stewardship, Lenoir City, TN

Stephanie Chance - Sensitive Aquatic Species Review

Aquatic Endangered Species Biologist, TVA Resource Stewardship, Knoxville, TN

Patricia Cox - Sensitive Plant Species Review

Botanist, TVA Resource Stewardship, Knoxville, TN

Mike Crowson (retired) - Team Management and Project Review

Watts Bar/Clinch Watershed Manager, TVA Resource Stewardship, Lenoir City, TN

Alisa Crutchfield - Land Use Review

Watershed Representative, TVA Resource Stewardship, Lenoir City, TN

Michael Dobrogrosz - Project Manager, Watts Bar Reservoir Land Plan

Project Manager, TVA Resource Stewardship, Knoxville, TN

Jim Eblen - Socioeconomics and Environmental Justice Analysis

Economist, Contractor with TVA Economic Development, Knoxville, TN

Joe Feeman - Project Manager, Integrated Resource Management

Forester, TVA Resource Stewardship, Lenoir City, TN

Nancy Greer - Watershed Team Management and Project Review

Watts Bar/Clinch Watershed Manager, TVA Resource Stewardship, Lenoir City, TN

Hill Henry - Sensitive Animal Species Review

Endangered Species Specialist, TVA Resource Stewardship, Knoxville, TN

A. Eric Howard - Cultural Resources Review

Archaeologist, TVA Resource Stewardship, Knoxville, TN

George Humphrey - Recreation Resources Analysis

Land Use Specialist Recreation, TVA Resource Stewardship, Lenoir City, TN

Wesley James - Terrestrial Ecology Review

Wildlife Biologist, TVA Resource Stewardship, Lenoir City, TN

Jimmie Kelsoe - Prime Farmland Review

Environmental Scientist, TVA Research and Technology Applications

Carolyn Koroa - Navigation Review

Senior Geographic Analyst, Navigation, TVA River Operations, Knoxville, TN

Mark McNeely - Document layout and publishing coordinator

Program Administrator, TVA Resource Stewardship, Knoxville, TN

Roger Milstead - Floodplains and Flood Risk Review

Manager, Flood Risk and Data Management, River Operations

Jason M. Mitchell - Managed Areas and Sensitive Ecological Sites Review

Natural Areas Biologist, TVA Resource Stewardship, Knoxville, TN

Norris Neilson - Air Quality Review

Meteorologist, TVA Research and Technology applications, Muscle Shoals, AL

Donna Norton - Land Use and Planning Analysis

Land Use Specialist, TVA Resource Stewardship, Lenoir City, TN

Chett Peebles - Visual Resources Review

Senior Landscape Architect, TVA Resource Stewardship, Knoxville, TN

Kim Pilarski - Wetlands Review

Senior Wetland Biologist, TVA Resource Stewardship, Knoxville, TN

Helen Rucker - Land Use Analysis

NEPA Specialist, TVA Environmental Policy and Planning, Knoxville, TN

Edwin Scott - Aquatic Ecology Review

Aquatic Biologist, TVA Resource Stewardship, Knoxville, TN

Russell Smith - Technical Staff Coordination

Program Administrator - Environmental, TVA Resource Stewardship, Knoxville, TN

Charles Tichy - Historic Structures Review

Historic Architect, TVA Resource Stewardship, Knoxville, TN

Richard L. Toennisson - NEPA Project Management

NEPA Specialist, TVA Environmental Policy and Planning, Knoxville, TN

Jan Thomas - Managed Areas and Sensitive Ecological Sites Review

Natural Areas Contractor, Knoxville, TN

Alan Trently - Sensitive Terrestrial Species Review

Terrestrial Zoologist, TVA, Resource Stewardship, Knoxville, TN

James F. Williamson - Analysis and Text Editing

NEPA Specialist, TVA Environmental Policy and Planning, Knoxville, TN

CHAPTER 6

6. LIST OF AGENCIES, ORGANIZATIONS, AND PERSONS TO WHOM COPIES ARE SENT

Federal Agencies

Dr. Lee A. Barclay, Field Supervisor
U.S. Fish and Wildlife Service
446 Neal Street, Cookeville, Tennessee 38501

Lt. Col. Byron G. Jorns
U.S. Army Corps of Engineers, Nashville District
Post Office Box 1070, Nashville, Tennessee 37202-1070

Mr. Ron Gatlin, Chief
U.S. Army Corps of Engineers, Regulatory Branch
3701 Bell Road, Nashville, Tennessee 37214

Mr. Phil Campbell, Unit Manager
National Park Service, Obed Wild and Scenic River
Post Office Box 429, Wartburg, Tennessee 37887

Ms. Anne J. Zimmerman
U. S. Forest Service, Cherokee National Forest
Post Office Box 2010, Cleveland, Tennessee 37320

Mr. Brady Lester
U. S. Department of Energy
Post Office Box 2000, Oak Ridge, Tennessee 37830

Mr. Edward G. Cumesty, Site Manager
U. S. Department of Energy, Oak Ridge National Laboratory
Post Office Box 2006, Oak Ridge, Tennessee 37831

Mr. Bob Nelson
U. S. Coast Guard
Post Office Box 12406, Knoxville, Tennessee 37912

Mr. George Frank
Knoxville Export Assistance Center, U. S. Department of Commerce
601 West Summit Hill Drive, Knoxville, Tennessee 37902

State Agencies

Douglas J. Delaney, Director
Environmental Planning and Permits Division
Tennessee Department of Transportation
Suite 900, James K. Polk Building
505 Deaderick Street, Nashville, Tennessee 37243-0334

Mr. Terry Oliver
Tennessee Department of Agriculture
Ellington Agricultural Center
Post Office Box 40627, Nashville, Tennessee 37204

Mr. Mathew Kisber, Commissioner
Tennessee Department of Economic and Community Development
312 Eighth Ave, 11th Floor TN Tower, Nashville, Tennessee 37243

Mr. Herbert L. Harper, Executive Director
Tennessee Historical Commission
2941 Lebanon Road, Nashville, Tennessee 37243-0442

Mr. Robert M. Todd
Tennessee Wildlife Resources Agency
Post Office Box 40747, Nashville, Tennessee 37204-0747

Mr. Terrence Bobrowski
East Tennessee Development District
P. O. Box 19806, Knoxville, Tennessee 37939-2806

Mr. Hale Booth
Southeast Tennessee Development District
P. O. Box 4757, Chattanooga, Tennessee 37405

Mr. Dodd Galbreath
Tennessee Department of Environment and Conservation
Environmental Policy Office
L & C Tower, 21st Floor, 401 Church Street, Nashville, Tennessee 37243-1530

Mr. Reggie Reeves
Tennessee Department of Environment and Conservation
Division of Natural Heritage
8th Floor, L&C Tower, 401 Church Street, Nashville, Tennessee 37243

Ms. Joyce Hoyle
Tennessee Department of Environment and Conservation
Division of Recreation Services
10th Floor, L&C Tower, 401 Church Street, Nashville, Tennessee 37243

Mr. Paul Davis
Tennessee Department of Environment and Conservation
Division of Water Pollution Control
7th Floor, L&C Tower, 401 Church Street, Nashville, Tennessee 37243

Mr. Barry Stephens
Tennessee Department of Environment and Conservation
Division of Air Pollution Control
9th Floor, L&C Tower, 401 Church Street, Nashville, Tennessee 37243

Mr. Ron Hammontree
Tellico Reservoir Development Agency
59 Excellent Way, Vonore, Tennessee 37885

Mr. Allen Neel
East Tennessee Economic Development Agency
Suite 202, 10215 Technology Drive, Knoxville, Tennessee 37932

Ms. Beth Phillips
Tennessee Department of Economic and Community Development
Suite 202, 10215 Technology Drive, Knoxville, Tennessee 37932

Mr. James Fyke, Commissioner
Tennessee Department of Environment and Conservation
L & C Tower, 21st Floor, 401 Church Street, Nashville, Tennessee 37243-0435

Mr. Gerald Nicely, Commissioner
Tennessee Department of Transportation
James K. Polk Building, Suite K
505 Deaderick Street, Nashville, Tennessee 37243-0349

Mr. Will Callaway, Executive Director
Tennessee Environmental Council
One Vantage Way, Suite D-105, Nashville, Tennessee 37228

Local Agencies and Private Organizations

Ms. Betsy Peterson
Oak Ridge and Area Girl Scouts
115 Amanda Drive, Oak Ridge, Tennessee 37830

Maureen O'Connell, Director
Save Our Cumberland Mountains
Post Office 479, Lake City, Tennessee 37769

Mr. Mike Butler, Executive Director
Tennessee Wildlife Federation
300 Orlando Avenue, Nashville, Tennessee 37909-3200

Ms. Dana Pittman
Tennessee Land Trust
1510 Bailey Morrison Drive, Somerville, Tennessee 38068

Ms. Michele Myers, Recreation Director
Tennessee Marina Association
Post Office Box 298, Kuttawa, Kentucky 42055

Ms. Liz Dixon
Tennessee State Chapter of Sierra Club
2021 21st Avenue, S., Suite 436, Nashville, Tennessee 37212

Mr. Randy Brown
Foothills Land Conservancy
307 South Washington Street, Maryville, Tennessee 37804

Mr. Josh Collins, Director
Parks and Recreation, City of Oak Ridge
Post Office Box 1, Oak Ridge, Tennessee 37831

Mr. Al Guidry
Atomic City Sportsman Club
Post Office Box 5591, Oak Ridge, Tennessee 37831

Mr. Rick Gehrke
Cherokee Group of Sierra Club
9004 Wellthor Circle, Soddy Daisy, Tennessee 37379

Individuals

| | |
|---|-------------------------------------|
| Megan & Janet B. McKenzie, Decatur, TN | Ernestine L. Mitchell, Kingston, TN |
| Tracey Edgemor, Decatur, TN | Darrell & Lana Morken, Rockwood, TN |
| John Baxter, Harriman, TN | Jim La Rue, Kingston, TN |
| B. R. Ladd, Kingston, TN | Branden J. Ragland, Birchwood, TN |
| Michael McCollum, Knoxville, TN | Chris Burkhart, Knoxville, TN |
| Steve Moulton, Ten Mile, TN | Justin Evans, Knoxville, TN |
| Jack Suggs, Oak Ridge, TN | Tom Davis, Dayton, TN |
| Robert Kopala, Ten Mile, TN | James J. McNabb, Rockwood, TN |
| William J. Farnham, Knoxville, TN | Una Coffman, Kingston, TN |
| Ken Jones, Decatur, TN | David Carden, Lake City, TN |
| Angela Ricketson, Rockwood, TN | Jim Foster, Spring City, TN |
| Gerald Largen, Kingston, TN | Mike Albertson, Rockwood, TN |
| Bruce Eltzroth, Kingston, TN | Mr. & Mrs. Don Denuyl, Ten Mile, TN |
| Eddie Lisi, Athens, TN | Mr. & Mrs. Art Ewing, Monteagle, TN |
| Morris Hassler, Lenoir City, TN | Thom Thompson, Ten Mile, TN |
| Charles W. Goodman, Kingston, TN | Franklin V. Narbert, Ten Mile, TN |
| Karen Tustin, Kingston, TN | Mike Pazich, Kingston, TN |
| Bill Wright, Harriman, TN | Margaret Bacon, Kingston, TN |
| John Sublett, Rockwood, TN | Ed Mason, Kingston, TN |
| Frances S. Hassler, Crossville, TN | Stephen E. Bacon, Kingston, TN |
| Janice & Walter Laughrey, Spring City, TN | Vickie Bell, Ten Mile, TN |
| J. Fred Heitman, Oak Ridge, TN | Tom Okulczyk, Rockwood, TN |
| T. J. Selby, Crossville, TN | Margaret Mills, Rockwood, TN |

Jane Bailey, Ten Mile, TN
 William Kirk, Ten Mile, TN
 Bill Dean, Kingston, TN
 Steve Mayo, Spring City, TN
 Richard Vornehm, Knoxville, TN
 James D. Boyd, Ten Mile, TN
 Bob Lundsford, Rockwood, TN
 Terry Hassler, Crossville, TN
 Steve Hassler, Crossville, TN
 Brian & Wendy Arden, Knoxville, TN
 Wm. A. Newcomb, Harriman, TN
 Lenny Junkett, Lenoir City, TN
 Don & Mary Davis, Kingston, TN
 Mark Leuox, Harriman, TN
 Frank Kolski, Kingston, TN
 Jimmy McGinness, Chattanooga, TN
 Roger D. Aigner, Harriman, TN
 Earl Parker, Harriman, TN
 Dick Whiteman, Rockwood, TN

Frederick D. Harvey, Kingston, TN
 Dixie Mason, Kingston, TN
 Donald (Pete) Williams, Spring City, TN
 Suzanna Griffin, Kingston, TN
 C. D. Mounger, Kingston, TN
 Danny & Robert Fischer, Lenoir City, TN
 Don Scruggs, Kingston, TN
 George F. Baungartner, Ten Mile, TN
 Paul Bartizal, Spring City, TN
 Scottie Boles, Rockwood, TN
 David Collins, Knoxville, TN
 Terry A. Gupton, Harriman, TN
 Billy Minser, Knoxville, TN
 Charlie Lowery, Athens, TN
 Chad Hulette, Loudon, TN
 Christopher Weisberg, Knoxville, TN
 Alexandre Solomon, Spring City, TN
 Jim Baldwin, Spring City, TN

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CHAPTER 7

7. SUPPORTING INFORMATION

7.1. Literature Cited

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7.2. Glossary of Terms

100-year floodplain - The area inundated by the 1 percent annual chance (or 100-year) flood.

agricultural licensing - Some parcels or portions of parcels designated for other purposes or uses may also be suitable for interim agricultural licensing. These parcels have been identified, using the criteria contained in TVA's agriculture instruction. Normal tenure for a TVA agricultural license is five years. Land with extreme erosion potential may not be licensed for agricultural use unless erosion and sediment controls, including the use of BMPs, can be successfully implemented. Further investigation and/or mitigation of adverse impacts to natural or cultural resources may be required prior to approval of license agreements.

attainment areas - Those areas of the U.S. that meet National Ambient Air Quality Standards as determined by measurements of air pollutant levels.

benthic - Refers to the bottom of a stream, river, or reservoir.

controlled burn - A managed fire to remove vegetation for the benefit of silviculture or wildlife management.

cumulative impacts - Impacts which result from the incremental impact of the action when added to other past, present, and reasonably foreseeable actions, regardless of what agency or person undertakes such actions (40 CFR 1508.7).

dam reservation - Lands generally maintained in a park-like setting by TVA to protect the integrity of the dam structure, hydroelectric facilities, and navigation lock. The reservation also provides for public visitor access to the TVA dam facilities and recreation opportunities, such as public boat access, bank fishing, camping, picnicking, etc.

direct impacts - Effects which are caused by the action and occur at the same time and place (40CFR 1508.4).

dissolved oxygen - The oxygen dissolved in water, necessary to sustain aquatic life. It is usually measured in milligrams per liter or parts per million.

drawdown - Area of reservoirs exposed between full summer pool and minimum winter pool levels during annual drawdown of the water level for flood control.

dredging - The removal of material from an underwater location, primarily for deepening harbors and waterways.

embayment - A bay or arm of the reservoir.

emergent wetland - Wetlands dominated by erect, rooted herbaceous plants, such as cattails and bulrush.

endangered species - A species in danger of extinction throughout all or a significant portions of its range or territory. Endangered species recognized by the ESA or similar state legislation have special legal status for their protection and recovery.

floodplains - Any land area susceptible to inundation by water from any source by a flood of selected frequency. For purposes of the National Flood Insurance Program, the floodplain, as a minimum, is that area subject to a 1 percent or greater chance of flooding (100-year flood) in any given year.

flowage easement tracts - Privately owned lakeshore properties where TVA has (1) the right to flood the land as part of its reservoir operations, (2) no rights for vegetation management, and (3) the authority to control structures, under Section 26a of the TVA Act.

fragmentation - The process of breaking up a large area of relatively uniform habitat into one or more smaller, disconnected areas.

Hydrological units - Hydrologic Unit Codes (HUCs) are cataloging units assigned to each watershed by the U.S. Geological Survey for the purpose of assessment and management activities.

indirect impacts - Effects which are caused by the action and are later in time or farther removed in distance but are still reasonably foreseeable (40 CFR 1508.4).

Important Bird Areas - The Important Bird Area program is part of an international effort to identify the most critical bird habitat. TWRA has partnered with the National Audubon Society to compile a list of sites in Tennessee.

macroinvertebrates - Bottom dwelling aquatic animals without vertebrates, such as mollusks and arthropods.

mainstream reservoirs - Impoundments created by dams constructed across the Tennessee River.

marginal strip - The narrow strip of land owned by TVA between the water's edge and the adjoining private property, on which the property owner may construct private water use facilities upon approval of plans by TVA.

maximum shoreline contour - An elevation typically 5 feet above the top of the gates of a TVA Dam. It is often the property boundary between TVA marginal strip property and adjoining private property.

National Ambient Air Quality Standards - Uniform, national air quality standards established by the Environmental Protection Agency that restrict ambient levels of certain pollutants to protect public health (primary standards) or public welfare (secondary standards). Standards have been set for ozone, carbon monoxide, particulates, sulfur dioxide, nitrogen, nitrogen dioxide, and lead.

overbank - Vegetation which grows out from the bank of a stream over the water.

overstory - The tallest and dominant community of trees of a forest.

physiographic provinces - General divisions of land with each area having characteristic combinations of soil materials and topography.

plan tract - A numbered parcel of TVA fee-owned land which, prior to the plan, has had no long-term commitments affecting future land uses as assigned through the reservoir land planning process.

prime farmland - Generally regarded as the best land for farming, these areas are flat or gently rolling and are usually susceptible to little or no soil erosion. Prime farmland produces the most food, feed, fiber, forage, and oil seed crops with the least amount of fuel, fertilizer, and labor. It combines favorable soil quality, growing season, and moisture supply and, under careful management, can be farmed continuously and at a high level of productivity without degrading either the environment or the resource base. Prime farmland does not include land already in or committed to urban development, roads, or water storage.

riparian zone - An area of land that has vegetation or physical characteristics reflective of permanent water influence. Typically a streamside zone or shoreline edge.

riprap - Stones placed along the shoreline for bank stabilization and other purposes.

riparian - The communities of plants and animals which occur within the influence of a stream, river, or body of water.

riverine - Having characteristics similar to a river.

row crops - Agricultural crops, such as corn, wheat, beans, cotton, etc,... which are most efficiently grown in large quantities by planting and cultivating in lines or rows.

Section 26a review process - Section 26a of the TVA Act requires TVA review and approval of plans for obstructions, such as docks, fills, bridges, outfalls, water intakes, and riprap, before they are constructed across, in or along the Tennessee River and its tributaries. Applications for this approval are coordinated appropriately with TVA programs and USACE. USACE issues a joint public notice for those applications that are not covered by a USACE nationwide, general, or regional permit. The appropriate state water pollution control agency must also certify that the effluent from outfalls meets the applicable water quality standards.

scrub-shrub - Woody vegetation less than about 20-feet tall. Species include true shrubs, young trees, and trees or shrubs that are small or stunted because of environmental conditions.

Shipper savings - A standard metric for assessing the economic impact of inland navigation as mandated by the Office of Management and Budget. The dollar amount is equal to the cost of barge transportation subtracted from the next least costly mode of transportation, typically truck or rail.

shoreline - The line where the water of a TVA reservoir meets the shore when the water level is at the normal summer pool elevation.

Shoreline Management Zone - A barrier of permanent vegetation established or left undisturbed around a reservoir in order to buffer the adverse impacts resulting from development and increased human activity.

significant cultural resources - Some of the parcel descriptions state that “the parcel contains significant cultural resources” or that “cultural resource considerations may affect development of the parcel.” However, many of the parcel descriptions contain no reference to archaeological or other cultural resources. The lack of such references within a parcel description does not necessarily indicate that significant cultural resources do not exist. The use of any parcel for developmental purposes may require additional archaeological testing or mitigation of adverse impact to archaeological sites. The costs of required testing or mitigation would be the responsibility of the developer.

stratification - The seasonal layering of water within a reservoir due to differences in temperature or chemical characteristics of the layers.

substrates - The base or material to which a plant is attached and from which it receives nutrients.

summer pool elevation - The normal upper level to which the reservoirs may be filled. Where storage space is available above this level, additional filling may be made as needed for flood control.

threatened species - A species threatened with extinction throughout all or a significant portions of its range or territory. Threatened species recognized by the ESA or similar state legislation have special legal status for their protection and recovery.

tributary reservoirs - Impoundments created by dams constructed across streams and rivers that eventually flow into the Tennessee River.

turbidity - All the organic and inorganic living and nonliving materials suspended in a water column. Higher levels of turbidity affect light penetration and typically decrease productivity of water bodies.

understory - The least dominant community of trees of a forest, consisting of shade tolerant species.

upland - The higher parts of a region, not closely associated with streams or lakes.

wetlands - As defined in *TVA Environmental Review Procedures*, "Wetlands are those areas inundated by surface or groundwater with a frequency sufficient to support and under normal circumstances do or would support a prevalence of vegetation or aquatic life that requires saturated or seasonably saturated soil conditions for growth and reproduction. Wetlands generally include swamps, marshes, bogs, and similar areas, such as sloughs, potholes, wet meadows, mud flats, and natural ponds.

Wildlife Management Area - Land and/or water areas designated by State wildlife agencies, such as the Tennessee Wildlife Resources Agency (TWRA), for the protection and management of wildlife. These areas typically have specific hunting and trapping regulations as well as rules regarding appropriate uses of these areas by the public.